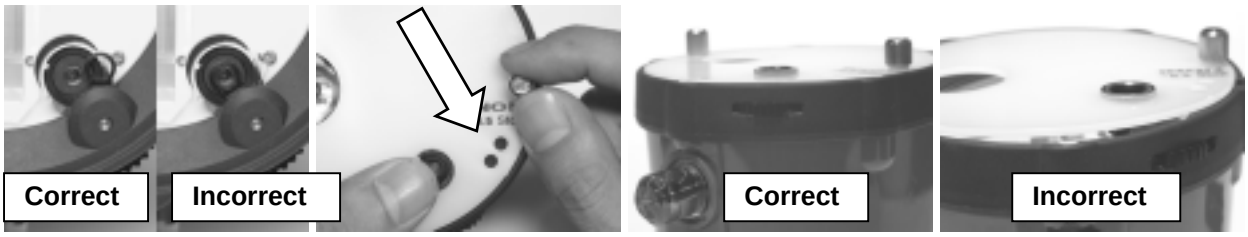
INON D-180 / D-180S –0.5 Diffuser

Thank you for purchasing Inon products.
By attaching this diffuser panel to an Inon D-180 or D-180S strobe, the beam angle widens (from a circular 100 to 110 degrees) and the quality of light and shadows become softer. The diffuser can be used in both "External Auto" and "Manual" Modes.
This diffuser is a dedicated option for *use with the D-180 and D-180S strobes only*, and cannot be used with the Z-220 or Z-220S.

Compatible Strobes: D-180, D-180S

Attachment Method:
Set the D-180 +1/4 EV Compensation Switch or the D-180S +1/2 Compensation Switch to the OFF position.
Place the diffuser over the strobe face as in image below. While holding the diffuser down and pressing your thumb over the Light Adjustment Sensor, making sure the diffuser seats over it completely, thread in the two fixing screws. When facing the strobe, screw in the right side screw first, then left side. *Do not over tighten as this could damage the diffuser.* Check the diffuser position, making sure that it is seated evenly around the strobe face and not protruding up as in image below.



Use Method and Precautions:
Using in "External Auto" Mode
With the diffuser installed, compared to the uninstalled configuration, the resulting images will be exposed +1/3EV lighter (about 1/3 of a stop), or the same as if you had compensated for +1/3EV without the diffuser. This is because the diffuser is spreading the light wider, in effect meaning less light is reaching the subject. Accordingly, the D-180/D-180S Light Sensor is receiving less reflected light from the subject so the strobe tries to compensate by firing a stronger flash, resulting in +1/3EV exposure.
When using the diffuser, it is not possible to compensate exposure with the D-180 +1/4EV Compensation Switch or the D-180S +1/2EV Compensation Switch.
Taking the shooting conditions into consideration, use the strobe's "Aperture Value Set Switch"

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to obtain flash output compensation.

Also, with the diffuser installed in External Auto mode, the light adjustment working distance range will shift –1/2EV (about -0.5 of a stop) towards the subject. For more detailed explanation of External Auto, Flash Compensation and Light Adjustment Range refer to your D-180/D0180S User Manual.

Using in Manual Mode (D-180 only)

With the diffuser installed, the actual light volume which will transmit though the diffuser will be –1/2EV (about –0.5 of a stop) weaker than the setting on the strobe's main mode switch; i.e., the image will be –1/2EV (-0.5 stop) darker.

Compared to the strobe's "Main Mode Switch" setting position, the actual strobe output is as follows. (* Air / ISO100 x meter)

Switch Position	Guide Number *	Flash output compared to D-180 set at Full (G.N. 18*), without diffuser	
		[EV]	Absolute Output
FULL	Approx. 15	-1/2EV	Approx. 1/1.4
M-2	Approx. 7.5	-5/2EV	Approx. 1/5.7
M-3	Approx. 5.3	-7/2EV	Approx. 1/11
M-4	Approx. 3.8	-9/2EV	Approx. 1/23

For other details related to manual flash exposure refer to D-180 User Manual.

Maintenance

- After use, always remove the diffuser from the strobe and soak in fresh water (less than 30C / 86F degrees) for several hours to dissolve any accumulated salt, then blow off any water droplets using an air gun, and dry in a well ventilated area out of direct sunlight. It may take several days to completely dry, depending on relative humidity and air conditions.
- To prevent salt corrosion and electrolysis from fusing the diffuser to the strobe, periodically grease-up the strobe's diffuser fixing screw socket threads as in image at right.

Please consult with Inon *before* returning any products for service.

Inon Dealer Contact Information:

For inquiries, comments or suggestions regarding this manual, or periodic revisions, contact Mark Rupert. mrupert@rseco.com

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